



1/20

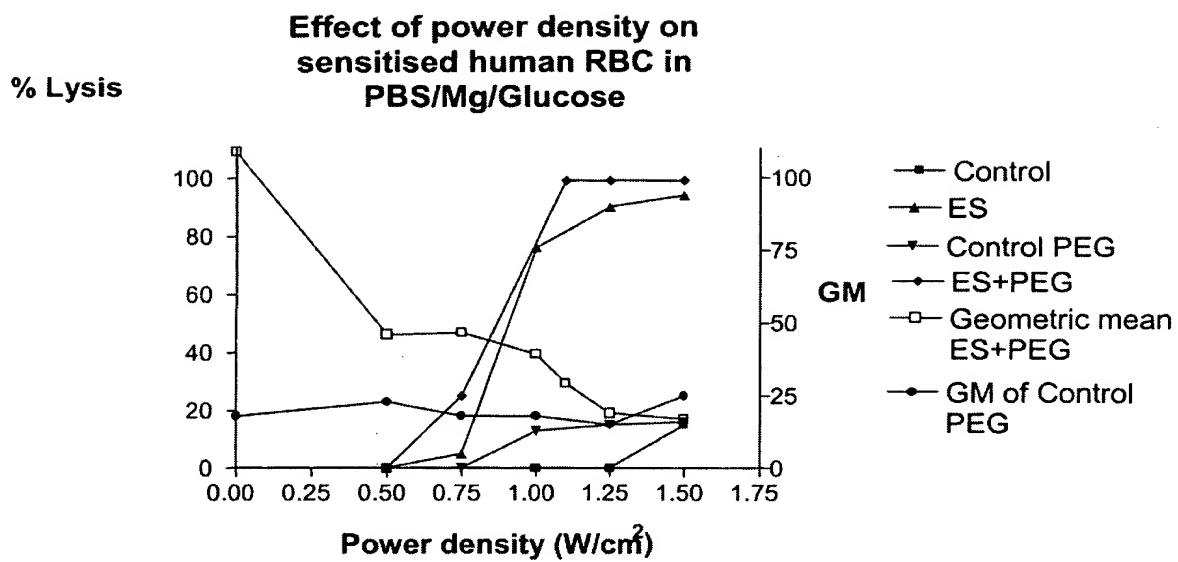


FIG. 1



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Effect of power density on sensitised human RBC in plasma

% Lysis

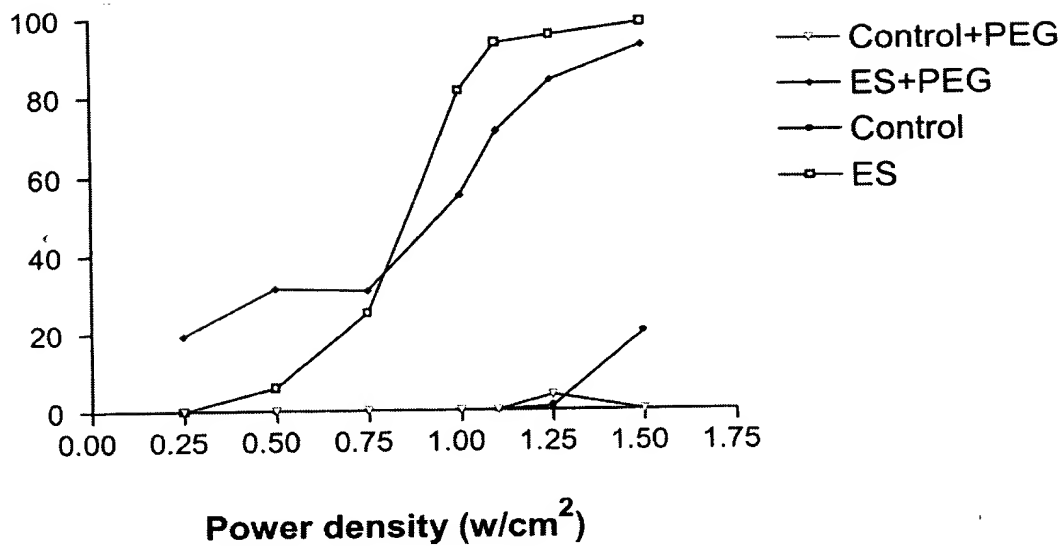


FIG. 2A

Geo. Mean

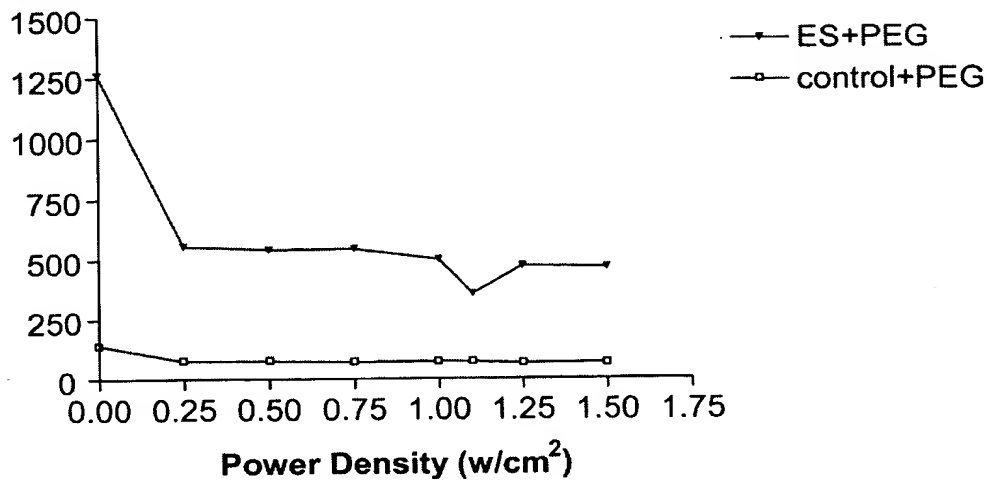


FIG. 2B



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% Lysis

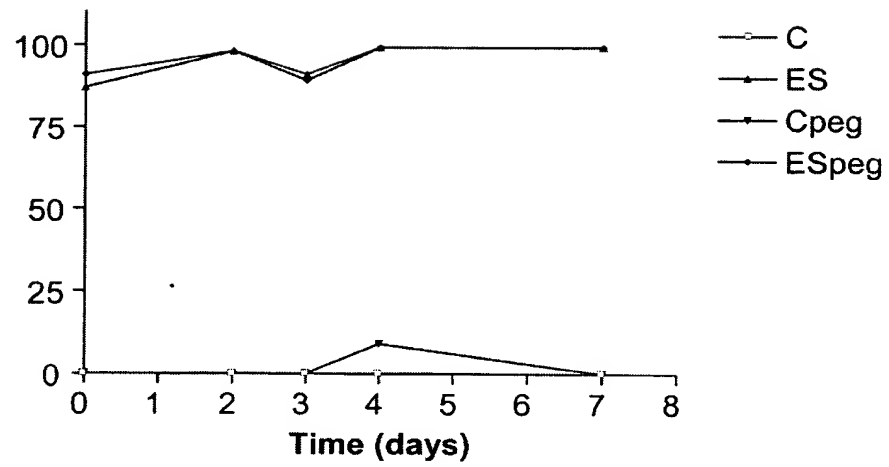
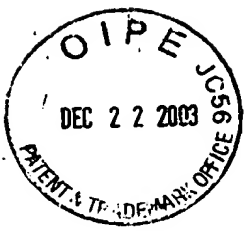


FIG. 3



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**Ultrasound sensitivity during
storage at 4°C in plasma**

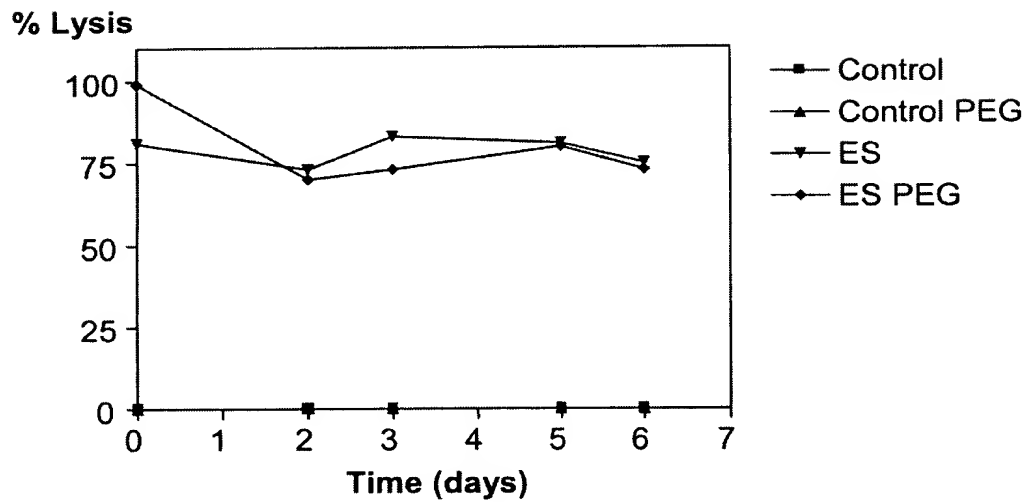


FIG. 4



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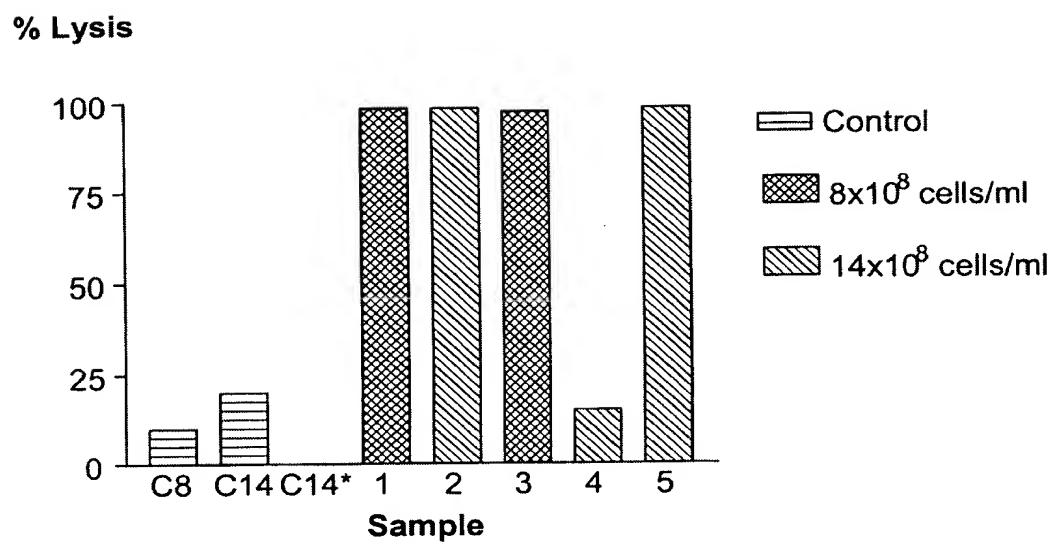


FIG. 5



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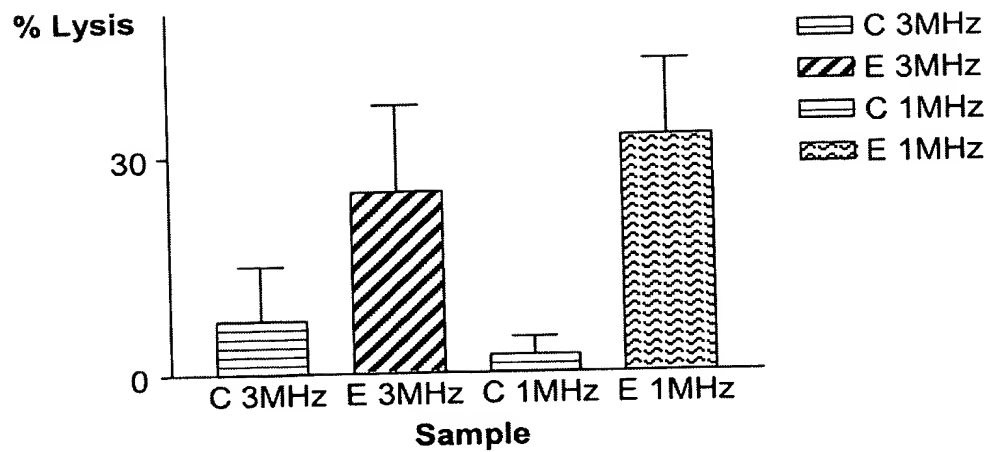


FIG. 6



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FIG. 7A

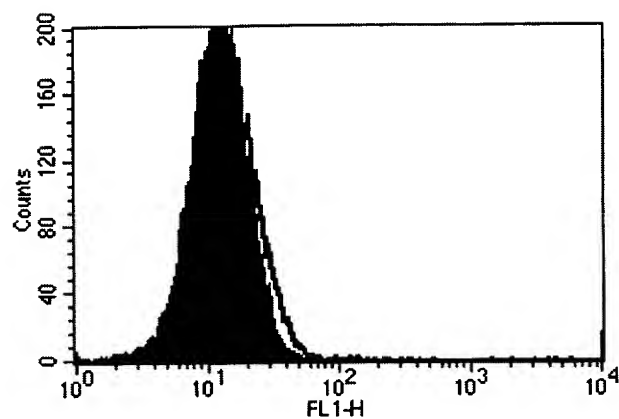


FIG. 7B

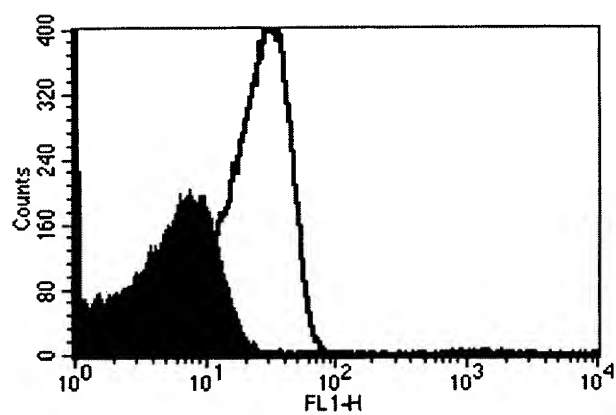
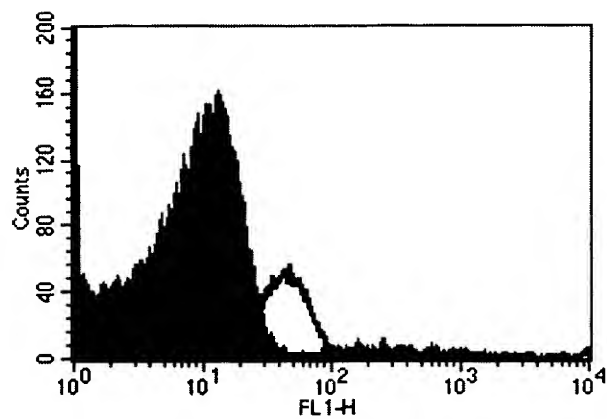


FIG. 7C





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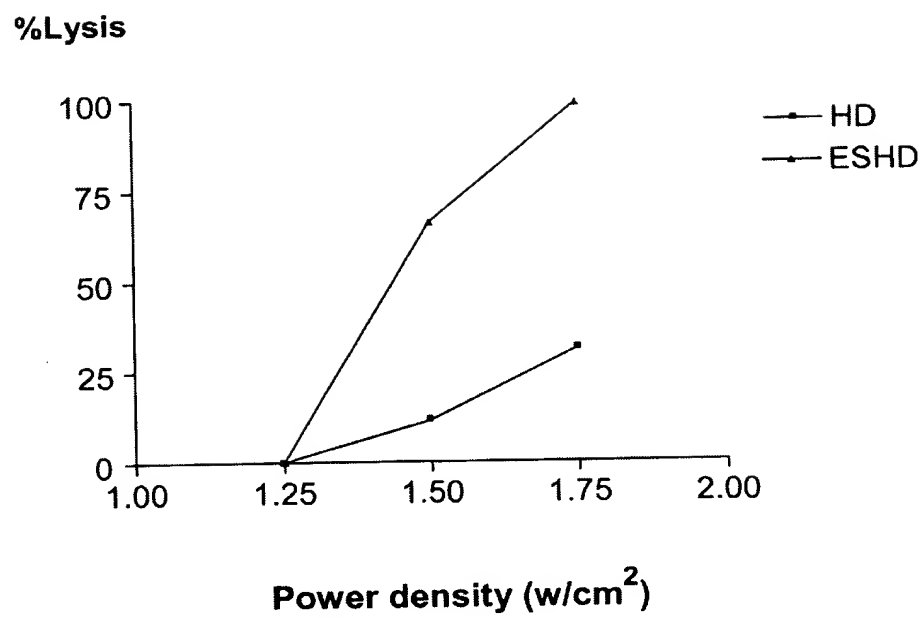


FIG. 8



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μg of anti-vWF released
(per 7×10^7 cells treated by U/S)

percentage of
cells lysed by U/S

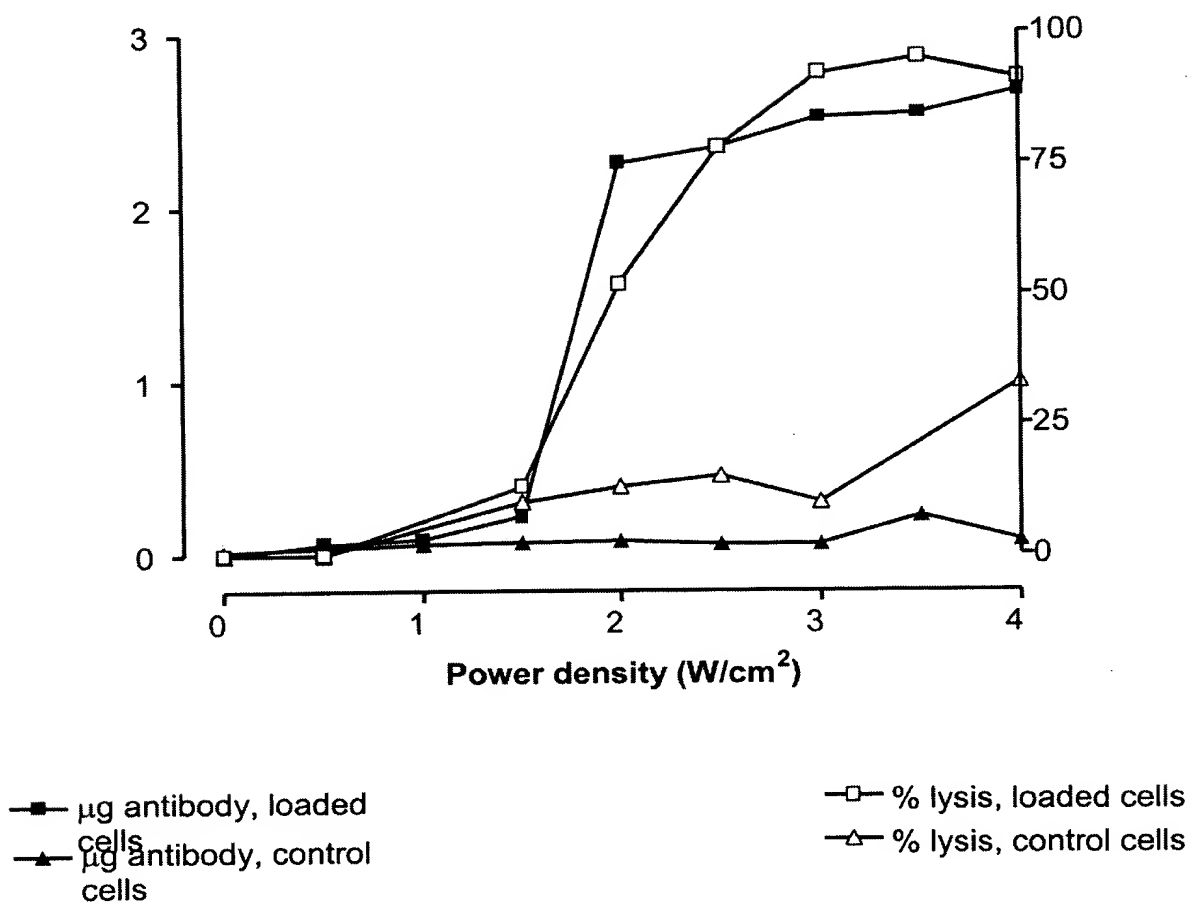


FIG. 9



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- Control lysis
- ▲— Sample lysis
- ◆— Sample release

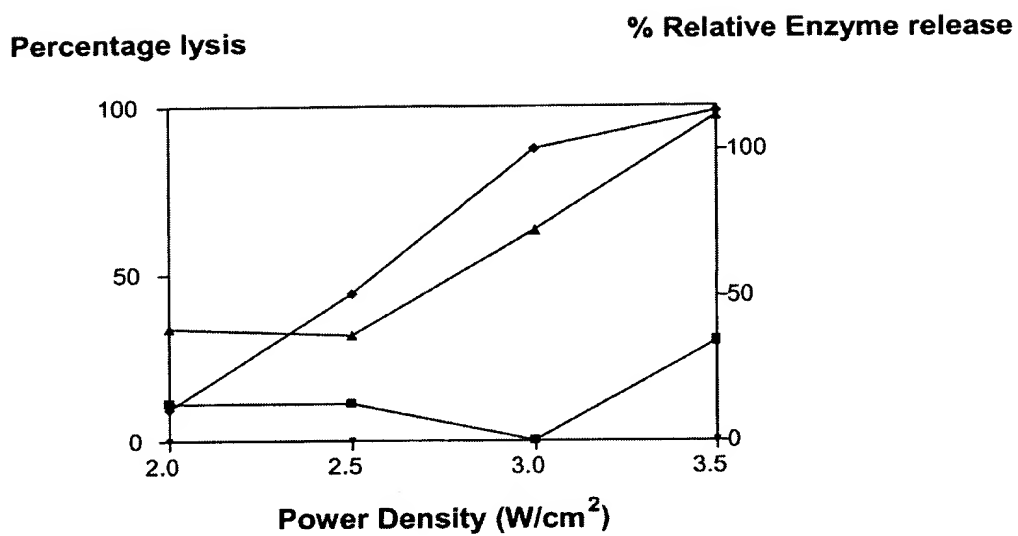
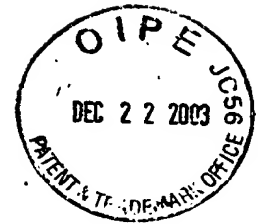


FIG. 10



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- Control cell lysis
- ▼— Cell lysis
- ◆— % Oligo released

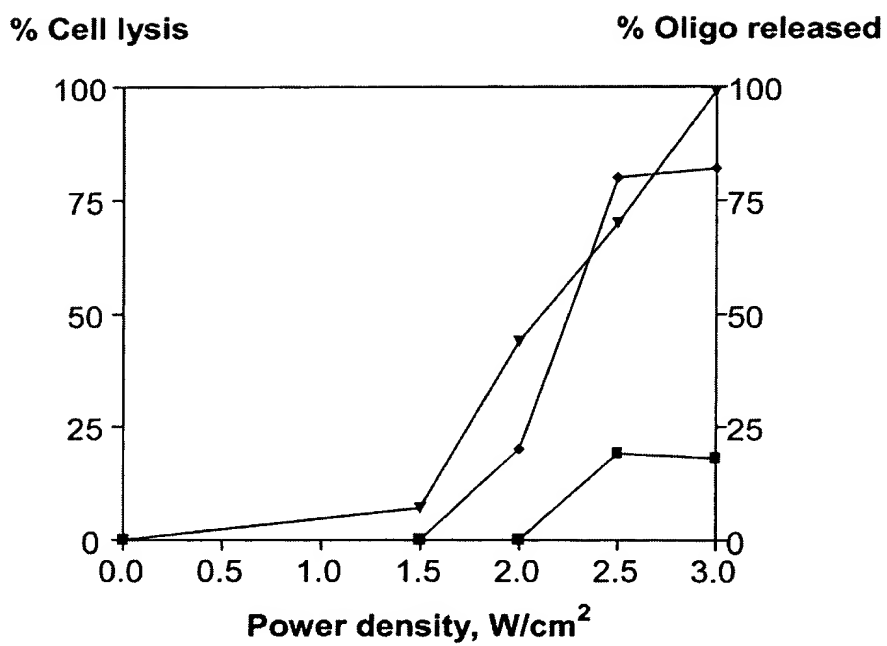
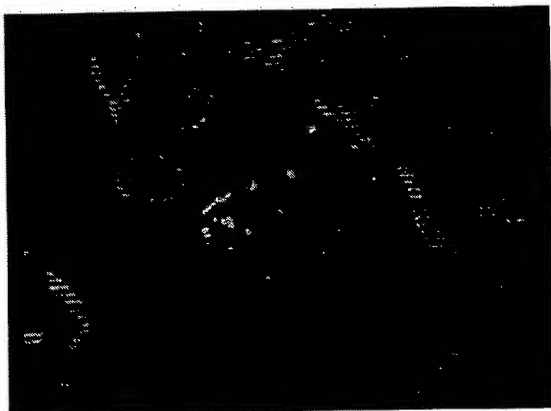


FIG. 11



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+U/S



-U/S



FIG. 12

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FIG. 13A

RbRBC + Electrosensitisation

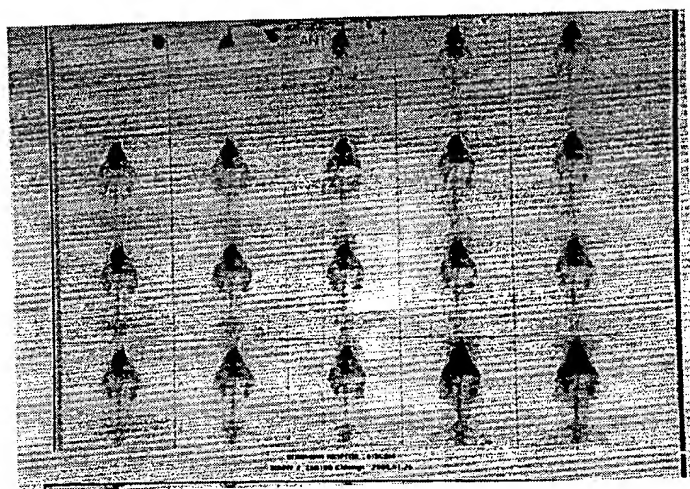
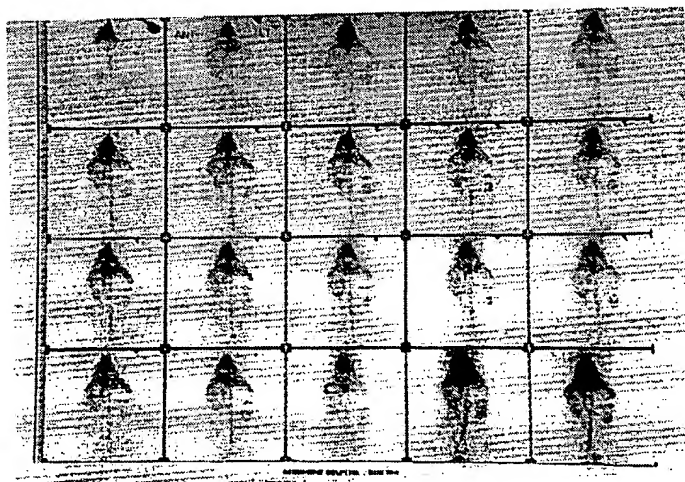


FIG.13B

RbRBC unmodified





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FIG. 13C

RbRBC plus 2.5% glutaraldehyde

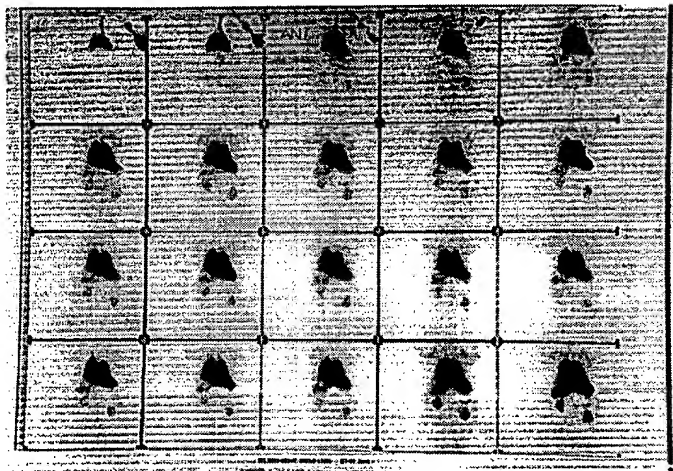
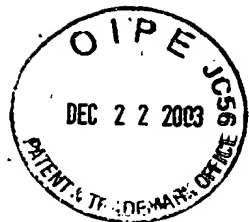


FIG.13D

RbRBC PEGylated





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**Study of the clearance of ^{99}Tc -labelled
Hu erythrocytes from Rb circulation**

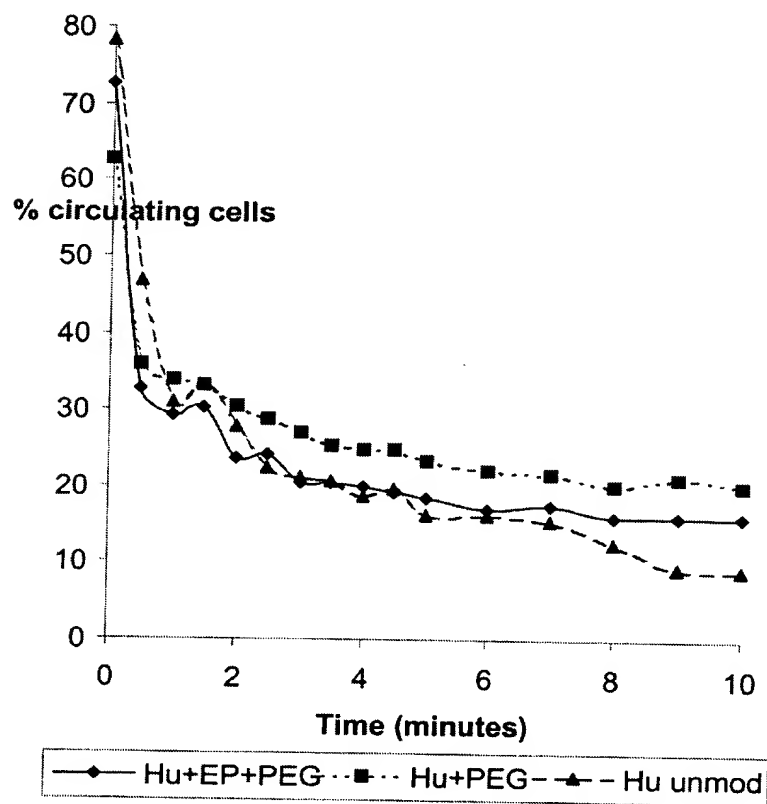


FIG. 14



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in vivo survival of modified erythrocytes in rabbit

% of PKH-26 labelled cells
remaining in circulation

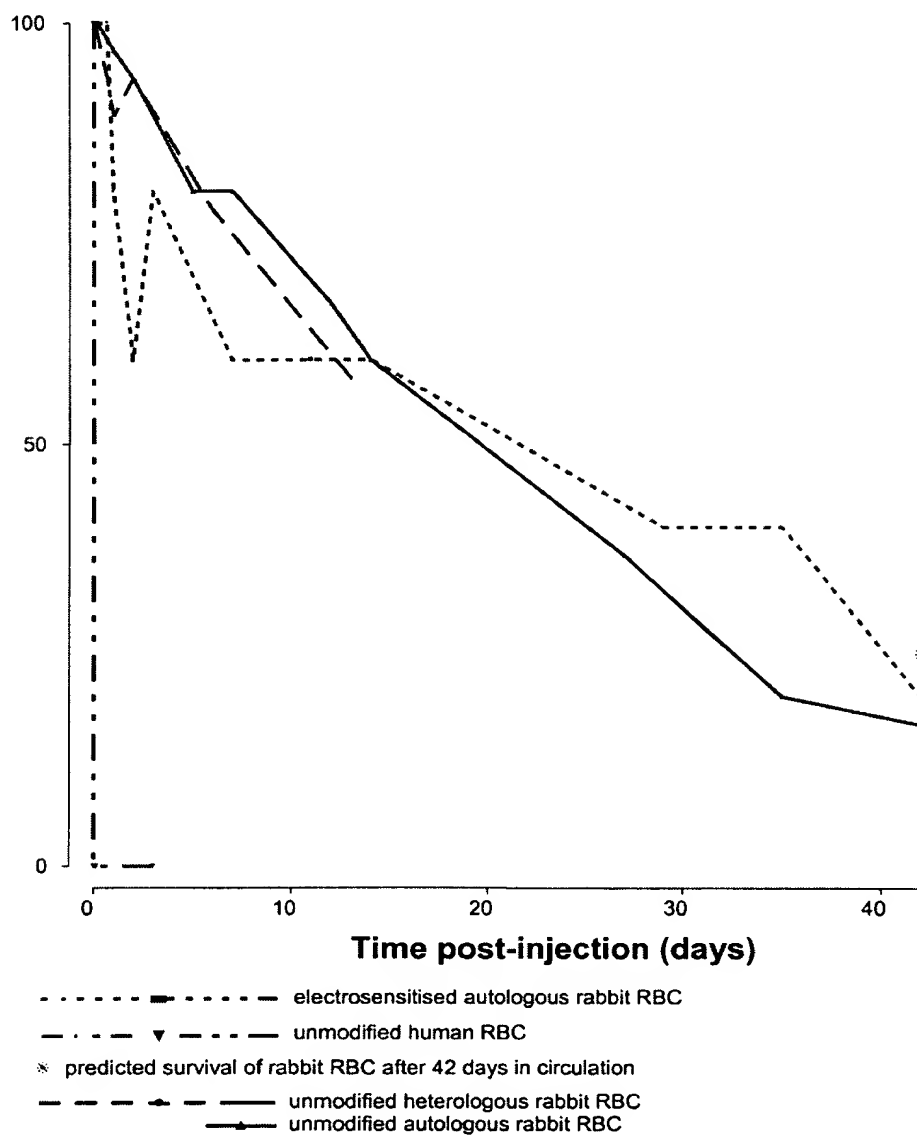
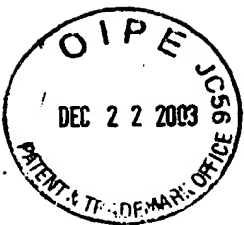


FIG. 15



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Survival of loaded and sensitised rabbit erythrocytes in circulation

Counts of Labelled cells

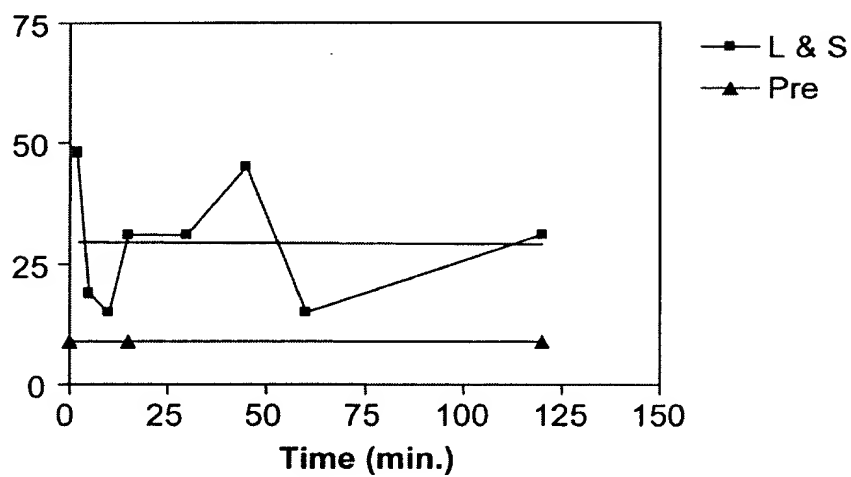
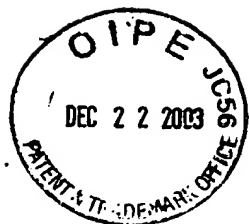


FIG. 16



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CIRCULATING PHANTOM
Ultrasound-induced antibody
payload from spiked whole blood at
normal haematocrit
(US - continuous wave, 5W/cm²)

Antibody payload released (%)

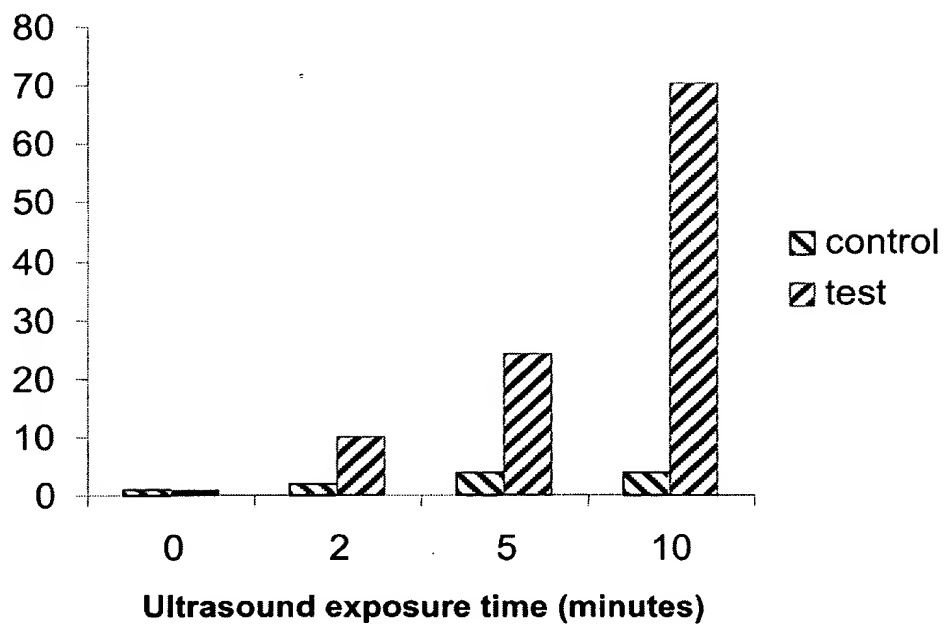


FIG. 17

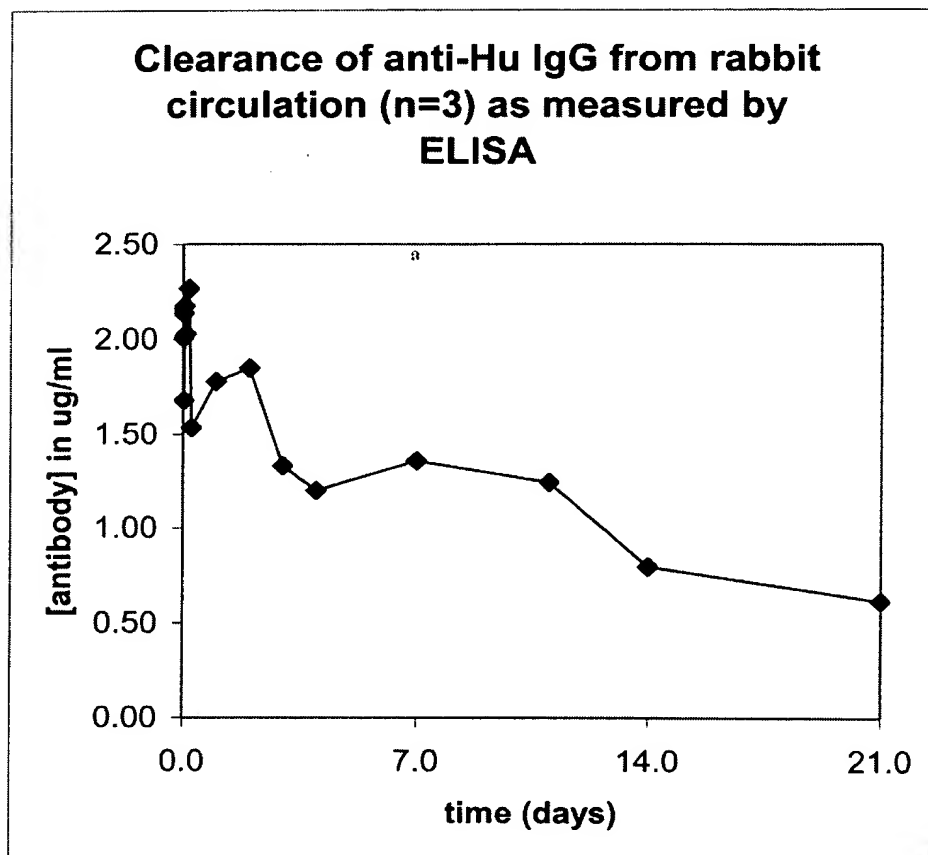
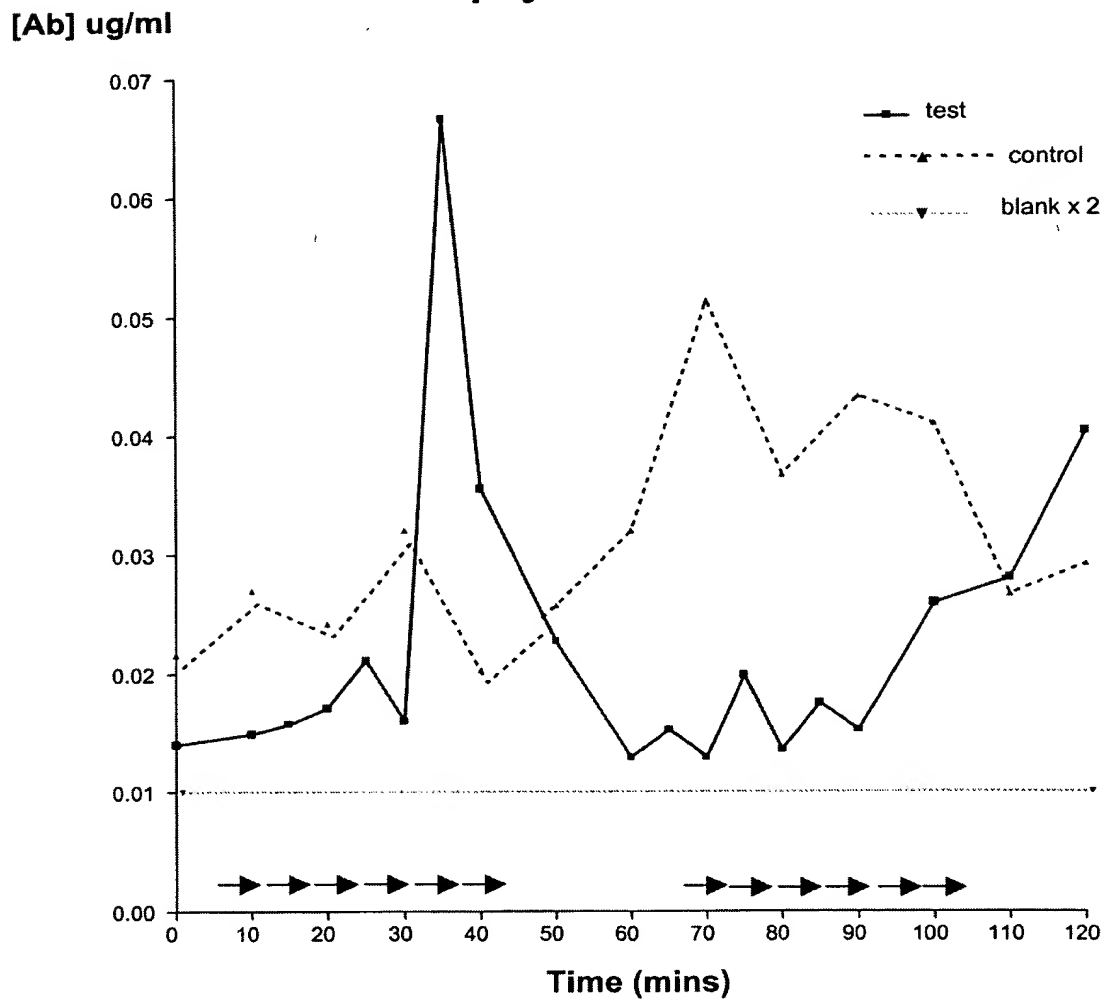


FIG. 18

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Ultrasound-mediated release of antibody payload *in vivo*



→ Ultrasound treatment periods (1MHz probe, 4W/cm², 4')

FIG. 19